



GROUND WATER SURVEY

TOWNSHIP OF PORTLAND

VILLAGE OF HARROWSMITH

1979

LAURENCE J. BROWN
MINISTRY OF THE ENVIRONMENT

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The Honourable
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Minister

Graham W. Scott,
Deputy Minister

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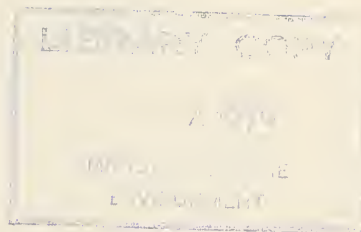
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TOWNSHIP OF PORTLAND

VILLAGE OF HARROWSMITH

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D.J. ANDRIJIW

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MINISTRY OF THE ENVIRONMENT

TOWNSHIP OF PORTLAND

VILLAGE OF HARROWSMITH

GROUND WATER SURVEY

INTRODUCTION

At the request of the Technical Support Section of the Southeastern Region, a ground water survey was undertaken to determine the feasibility of utilizing local ground-water resources as a source of water supply for a communal water system. If the ground water conditions proved to be favourable, potential test-drilling sites would be indicated.

The study was confined to an area within a radius of about 1.6 km (1 mile) of the Village of Harrowsmith. An office study consisted of reviewing water-well records, topographic maps and geologic reports. A field reconnaissance was made to observe geologic and topographic features. Water samples were collected from the bedrock wells in the vicinity to determine the chemical quality of ground water in the area.

The water well records of the study area are listed in Table 1. The location of representative wells is shown in Figure 1. The well numbering system used in this report relates to the permanent well coding numbers of the Ministry of the Environment.

PRESENT SUPPLIES AND WATER REQUIREMENTS

Residents within the study area obtain water for their use from predominantly drilled wells which terminate in the bedrock. Some residents utilize shallow dug wells. According to the Technical Support Section the population of Harrowsmith is 565 and assuming a population increase of 1.5% per year this would result in a population of 761 by the year 1997. Assuming a maximum-day to average-day demand ratio of 2.5 to 1 and an average daily consumption of 455 litres (100 gallons) per person, a well water supply capable of yielding 4.0 L/s (53 gpm) on an average-day basis and 10.0 L/s (132 gpm) on a maximum-day basis is required for the design period. Storage would be required to meet peak-hourly and fire-flow demands.

GEOLOGY

Bedrock

The bedrock in the study area consists of Paleozoic sedimentary rocks of Cambrian and Ordovician Age. The Harrowsmith area is underlain by the Gull River formation of Middle Ordovician Age. Liberty¹ divided the Gull River formation into four members, A to D. The uppermost member, D, consists of brown, semicrystalline and lithographic limestone. Member C consists of alternating massive and thin-bedded grey lithographic limestone and shale. Member B consists of medium beds of grey lithographic, argillaceous and bioclastic limestone that are underlain by thin to medium beds of lithographic limestone. The area located approximately 0.8 km (0.5 miles) south of Harrowsmith is underlain by Members B to D of the Gull River Formation.

Harrowsmith itself is underlain by Member A of the Gull River Formation. Member A has been subdivided into three submembers. The upper submember consists of alternating grey lithographic limestone and brown fine crystalline dolomite and limestone. Shaly partings are also noted. The middle submember consists of dark brown lithographic and digitate limestone while the lower submember comprises brown, fine-crystalline and grey lithographic limestone.

The Gull River Formation is underlain by the Shadow Lake Formation which comprises red, black and green shales, sandstone and arkose. The Shadow Lake Formation in turn overlies the Potsdam Formation. The Potsdam Formation comprises red, white, grey and yellow, evenly textured, fine-grained sandstone and siltstone. The undifferentiated Precambrian bedrock, mapped primarily as crystalline limestone, interlayered quartzite and marble, granite, gneisses, schists, migmatite, gabbro, pegmatite, monzomite and diabase and andesite dykes, underlies the Potsdam Formation.

¹ Liberty, B.A., 1971, Paleozoic Geology of the Wolfe Island, Bath, Sydenham and Gananoque Map-Areas, Ontario; Geol. Surv. Can., Paper 70-35



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Member A of the Gull River Formation reportedly ranges in thickness from 50.2 to 56.4 m (165 to 185 feet). The water well records available for the Harrowsmith area indicate that the limestone ranges up to a depth of 57.9 m (190 feet). However, several water well records indicate that the top of the Shadow Lake Formation ranges from 28.3 to 42.7 m (93 to 140 feet) below surface and attains a thickness from 1.5 to 10.1 m (5 to 33 feet). Granites are reported in water well records ranging from a depth of 39.6 to 72.2 m (130 to 237 feet) and attains a thickness of up to 27.4 m (90 feet). It is difficult to differentiate the Shadow Lake Formation from the Potsdam Formation in the water well records.

Bedrock surface elevation data were obtained from the water well records and topographic data. It appears that the bedrock surface forms two northeast-southwest trending valleys or channels; one is located in the present drainage area of Wilton Creek while the other is located to the east of the study area in the present drainage area of Millhaven Creek. The channel in the Wilton Creek is narrow and moderately deep. The Millhaven Creek channel appears to be narrow and shallow. There is insufficient well data to delineate the course and extent of the buried bedrock channels located in the area of Wilton Creek and Millhaven Creek. It is likely that the channels have been formed by glacial and fluvial erosion.

Overburden

The overburden in the study area consists of Pleistocene sediments of glacial, glaciofluvial and glaciolacustrine origin deposited over most of the area. Recent alluvial deposits are located in the valley of Wilton Creek and Millhaven Creek. Recent swamp deposits are also noted in the southeast of Harrowsmith and in some locations in the drainage area of Wilton and Millhaven Creeks. The terrain around Harrowsmith is generally characterized by a sandy-silty till deposited by the Lake Ontario ice lobe during Wisconsin glaciation. Glaciofluvial deposits consisting of sand and gravel are located on the bedrock terraces in the Wilton Creek valley located just to the west of Harrowsmith. Here, the sands and gravels show cross-bedding structural features. Glaciolacustrine deposits consisting of clay and silt are located to the southwest of Harrowsmith and primarily in the Wilton Creek valley.

Generally, the overburden is quite thin in the Harrowsmith area and ranges in thickness from 0 to 19.8 m (0 to 65 feet). The overburden was found to be 3.0 m (10 feet) thick or less in 91% of the 332 water well records utilized for the survey. The thickest deposits of overburden are located in the valley or channel of Wilton Creek and in Millhaven Creek. Two water well records report an overburden thickness of 18.3 to 19.8 m (60 to 65 feet) in the Wilton Creek area while surrounding well data show overburden thicknesses ranging from 0 to 10.1 m (0 to 33 feet). The overburden material is reported to range from clay to a sand and gravel, the latter underlying the area just to the west and northwest of the centre of Harrowsmith. The overburden in the Millhaven Creek area attains a thickness of up to 11 m (36 feet) and comprises clay to fine sand.

HYDROGEOLOGY

General

A rock formation or unconsolidated sediments which can yield usable quantities of water is called an aquifer. The ability of an aquifer to yield water is dependent upon its hydraulic characteristics, its thickness and areal extent, and on the amount of recharge in the form of precipitation which reaches the aquifer.

Bedrock

Water in the bedrock moves primarily through interconnected openings such as fractures, joints and bedding planes. Water in interconnected, intergranular pore spaces contributes to storage in the aquifer rather than well yield. The yield from a bedrock well is generally dependent upon the number, size and interconnection of the openings which the well intercepts. As a well penetrates deeper into the bedrock formation, more solution cavities and/or fractures are likely to be intercepted.

The bedrock wells in the study area range in depth from 5.2 to 121.9 m (17 to 400 feet) and penetrate from 2.7 m to 120.4 m (9 to 395 feet) into the rock, however, the deepest penetrating well resulted in dry conditions. A well penetrating 68.9 m (226 feet) into the bedrock did encounter a domestic supply of water. Of the bedrock water well records studied, 39% of the wells encountered water after 15.2 m (50 feet) of bedrock penetration while another 40% of the wells encountered water with an

additional 15.2 m (50 feet) of bedrock drilling. With an additional 15.2 m (50 feet) of bedrock drilling, domestic supplies were obtained for an additional 16% of the survey wells. Only 18 wells out of the 329 studied penetrated more than 45.7 m (150 feet) of bedrock, however, three of these wells did not find sufficient quantities of water for domestic demands. From the well data it is seen that 79% of the bedrock wells encounter sufficient supplies within the first 30.5 m (100 feet) of bedrock penetration.

Specific capacity, which is the well yield in litres per second per metre of drawdown (L/s/m) (gpm per foot of drawdown) is a measure of the ability of a well to yield water. The specific capacities of the bedrock wells vary from 2.5×10^{-3} to 9.9 L/s/m (0.01 to 40 gpm per foot of drawdown) with about 76% of the bedrock wells having specific capacities of less than 2.5×10^{-1} L/s/m (1.0 gpm per foot of drawdown). Based on the specific capacities, yields from the bedrock are quite variable. However, most of the well data indicate that the specific capacities are generally too low to permit the construction of high capacity wells in the bedrock.

Overburden

In the overburden, water is transmitted through intergranular openings in the sediments, and hence, the sorting, shape, and grain size of the overburden materials affect its ability to transmit water. Water movement through glacial materials varies greatly. Water movement is slow in both vertical and horizontal directions through fine-grained materials such as clay or poorly sorted materials such as till, due to the low permeability of the materials. These materials are poor aquifers. Coarse-grained materials such as sand and gravels have high permeabilities and can be fair to excellent aquifers.

In the Harrowsmith area, there are some dug wells that obtain sufficient water for domestic usage from the shallow overburden. However, there are no drilled wells that are completed in the overburden. This is probably due to the fineness and poor sorting of the overburden materials and to the fact that the overburden materials are generally thin, have limited areal extent and storage.

The overburden materials in the area above the creek valleys, therefore, do not

appear to favour the construction of large capacity water wells. However, ground water moves under the influence of gravity from topographically high areas toward discharge in the topographically low valleys of rivers, creeks and swamps. The thickest deposits of overburden materials are situated in the topographically low bedrock channels of Wilton and Rillhaven Creeks. As the bedrock channels are located in the discharge areas, the overburden in them may serve as a means of storage of groundwater. Past erosional forces may have made the bedrock more permeable in the channel areas and although the channels are filled in by fine-grained materials and generally may have only the bottom metre saturated, it is anticipated that the bedrock aquifer may be hydraulically connected to the overlying materials.

Although the sand and gravel deposits appear to be thin and partially saturated in the Harrowsmith area, there is a possibility that thicker deposits of sand and gravel are buried in the Wilton Creek valley further south of Harrowsmith. These deposits may have greater saturated thickness, areal extent and may have a hydraulic connection to the waters of Wilton Creek.

CHEMICAL WATER QUALITY

Twelve well water samples were collected to assess the chemical quality of the ground water in the bedrock. The results of the analyses are shown in Table 2.

The water from the bedrock is hard to extremely hard. Only three of the sampled waters border on or surpass the Ministry's permissible criterion for iron concentration of 0.3 mg/L. Only one well yielded water that contained a high sulphate concentration of 320 mg/L, which exceeds the Ministry's permissible criterion of 250 mg/L.

The total dissolved solids in seven of the well water samples exceeded the Ministry's permissible criterion of 500 mg/L. Six samples contained total organic carbon concentrations of greater than the permissible criterion of 5 mg/L. The colour of four water samples equalled or surpassed the Ministry's standard while two of these samples were more turbid than acceptable. Three of these samples, however, contained iron concentrations above the permissible level and the high colour and turbidity values are probably related to the high iron present.

The nitrate concentration in two well water samples was higher than the general

concentration noted in remaining sampled wells, however, nitrate concentration is still well below the Ministry's permissible criterion of 10 mg/L. The main sources of this type of contamination are suspected to be animal wastes, septic tank effluents and nitrogen fertilizers.

The chloride concentration in four of the samples exceeded the Ministry's permissible criterion of 250 mg/L. Previous studies in the area have shown that chlorides appears to be a problem through the study area. It was generally concluded that the deeper the well penetrated into the bedrock the higher the risk of obtaining high chloride water. From the water analyses results for this survey, it was indicated that of the four wells with high chloride concentrations, three were completed within a depth of 20.1 m (66 feet).

Only one well that was sampled reportedly had a sulphur odour or taste problem. However, in reviewing the water well record data, it is seen that several wells did encounter sulphurous waters not only at depth but also in relatively shallow zones.

In general the water quality tends to deteriorate with depth. The possibility of encountering poor quality water in the bedrock is relatively high.

The lack of wells in the sand and gravel deposits along Wilton Creek prevented sampling of the water quality. Except for some iron content, water quality problems are not anticipated.

CONCLUSIONS

Based on the available hydrogeologic information, the overburden in the area does not form a suitable aquifer which is capable of yielding sufficient quantities of water for municipal supplies. However, sand and gravel deposits in the valley of Wilton Creek south of Harrowsmith may attain greater saturated thicknesses and areal extent and thereby may form a suitable aquifer.

The bedrock aquifer is the only aquifer capable of yielding sufficient quantities of water to individual wells but the chances of developing a municipal well supply in the bedrock capable of yielding 10 L/s (132 gpm) are poor. In addition, if a well drilled into the bedrock is found to yield a considerable volume of water, the potential of inducing poorer quality water in the form of higher chlorides and

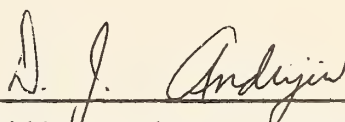
sulphurous odours into the well increases with time under heavy pumpage.

The bedrock under the channels of Wilton Creek and Millhaven Creek has a better potential of yielding water supplies on a communal scale. In these areas the bedrock surface may have been highly weathered due to past erosional forces and may be hydraulically connected to the partially saturated overburden materials. As a result the water from the bedrock in the channel areas may be of a more acceptable quantity and quality than bedrock water in other areas.

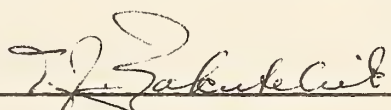
RECOMMENDATIONS

The prospects of developing wells capable of yielding sufficient quantity and quality are not considered favourable. Subsurface conditions in the areas of the bedrock channels of Wilton Creek and Millhaven Creek offer the only potential for communal scale wells and limited test drilling is recommended in these areas. As part of the program the drilling should also explore the potential of the deposits of sand and gravel that occur in the Wilton Creek valley and that extend south of Harrowsmith for several kilometres.

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Table 1 Summary of Water Well Records

Date

Prepared by

Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
		con lot											
3348	PORTLAND TWP	500 III	G. MILLER	DAVY'SON 60	Q	6 1/4	62	12	20	40	FR	D	0 d 3 1mst 62 *55
3349		550 III	S. AMEY	DAVY'SON 60	Q	6	61	23	10	61	FR	D	0 d 10 1mst 61 *57
3350		500 III	S. AMEY	DAVY'SON 60	Q	6 1/4	100	44	20	44	FR	S	0 d 9 1mst 90 grt 100 *90
5213		490 III	B. MILLER	DAVY'SON 70	Q	6 1/4	107	46	7	97	FR	D	0 1mst sl 23 1mst 107 *103
6227		525 III	J. TOWIGNANT	GOODBERRY 73	Q	6 1/4	229	90	8	150	FR	D	0 d 2 1mst 228 *226
6248		485 III	N. McDONNELL	DAVY'SON 73	Q	6 1/4	77	18	15	52	FR	D	0 d sl 5 1mst 77 *73
6345		485 III	L. AMEY	DAVY'SON 73	Q	6 1/4	78	35	10	50	FR	D	0 d 6 sl 15 1mst 78 *70
6826		510 III	P. VANLEEUWEN	KNOX 74	Q	6 1/4	175	80	4	173	FR	D	0 d sl 2 1mst sl 8 1mst 140 *173 atn 173 grt 175
4725		550 III	W. MITCHELL	DAVY'SON 69	Q	6 1/4	149	26	3	149	FR	D	0 sl 19 1mst 138 grt 149 *138
6534		515 III	R. FELLOWS	CHALK 73	Q	6	70	15	6	70	FR	D	0 d sl 2 sl 5 1mst 70 *51 65
3352		525 III	C. VANKOUGHNET	WALES 64	Q	6 1/4	49 1/2	22	30	32	FR	S	0 d 6 1mst 98 grt 49 1/2 *45
5797		425 III	R. McAULEY	DAVY'SON 72	Q	6 1/4	117	45	5	115	FR	D	0 d m 3 1mst 117 *65 115

Table Summary of Water Well Records

Date

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Well No	Location and Elevation		can lot	Owner	Driller	year	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
3353	PORTLAND TWP.	500	111	5	C.W. HODGSON	GOODBERRY	69	6 1/4	100	DRY					0 1mst 100
3354		500	111	6	S. TOMPSON	DAVY & SON	52	6 1/4	135	60	3	135	FR	D	0 loose r k y 1mst 135
3355		575	111	6	K. DAVIS	DAVY & SON	52	6 1/4	39	12	10	13	FR	D	0 soil d 10 1mst 39
3356		570	111	6	C.M. SMITH	GOODBERRY	59	6	106	80	1 1/2	102	FR	D	0 top 1 d 2 1mst 106
3357		575	111	6	J. DALBY	KNOX	66	6 1/4	90	DRY					0 earth 2 1mst 90
5095		545	111	6	G. HUFFMAN	DAVY & SON	70	6 1/4	92	4	5	92	FR	D	0 d 3 1mst 92
6743		548	111	6	M. DIARSON	GOODBERRY	74		82	DRY					0 sand 4 1mst 82
3358		550	111	7	C. LEVEQUE	DAVY & SON	52	6 1/4	147	56	1	147	SAT	D	0 1m 2 1mst 147
3359		515	111	7	G.S. NIDER	DAVY & SON	59	6 1/4	75	19	2	75	FR	D	0 soil 10 1mst 75
3360		570	111	7	V. MCALLISTER	SIGSWORTH	55	5 5/8	208	128	1/6	205	SAT	D	0 d 1 1mst 190 grant 208
3361		520	111	7	J.T. STANDEN	DAVY & SON	59	6 1/4	123	63	15	123	SAT	D	0 M 6 1mst 123
3362		500	114	7	J.T. STANDEN	CAMPBELL	61	6 1/4	26	2	5	5	FR	D	0 1m 15 slowly 1mst 5



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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
		can lot											
3363	PORTLAND TWP	III 7	G. SNIDER	DANIELSON 54	P	5 1/2	50	8	1'	15'	FR	D	0 Lm 6 /mst 50 *40
3364		III 7	F. WISTARD	KNOX 57	P	6 1/4	55	2	5'	55'	FR	D	0 earth 1 /mst 55 *30
3365		III 7	G.E. GREAVETT	KNOX 65	P	6 1/4	46	8	10'	40	FR	D	0 cl 2 /mst 46 *30 - 42
3366		III 7	I. ASHER	CAMPBELL 67	P	6	47	20	1/4	47	FR	TRAILER CAMP	0 cl 4 /mst 47 *40
4349		III 7	C. LEVEQUE	CAMPBELL 68	P	6 1/4	34	10	3 1/2	31	FR	D	0 Lm 2 /mst 34 *8
4727		III 7	J.E. TIERNY	DANIELSON 69	P	6 1/4	54	1	4'	50	FR	D	0 Lm 2 /mst 54 *10 46
5249		III 7	R. CHASE	CAMPBELL 70	P	6 1/4	80	10	1 1/2	79	FR	D	0 Lm 3 /mst 80 *60
5250		III 7	R. COMPTON	CAMPBELL 70	P	6 1/4	80	20	1 1/2	79	FR	D	0 Lm 3 /mst 80 *75
5174		III 7	C. LEVEQUE	CAMPBELL 69	P	6 1/4	30	10	3 1/2	30	FR	D	0 Lm 3 /mst 30 *25
5423		III 7	C.P. LEVEQUE	CAMPBELL 71	P		90	DRY					0 Lm 1 /mst 90 -
5787		III 7	S. COLLETT	DANIELSON 72	P	6 1/4	67	1	1'	67	FR	D	0 Lm 3 /mst 67 *7
5788		III 7	S. COLLETT	DANIELSON 72	P		67	DRY					0 Lm 3 /mst 67 -

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm)/(hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
		con lot											
5789	ARTLAND TWP	540 111 7	S. COLLETT	DAVEY & SON 72	☐	6 1/4	53	5	30'	18	FR	☐	0 dm 3 1mst 53 #16
3368		500 111 8	P. FRASER	DAVEY & SON 61	☐	6 1/4	134	35	3'	134	FR	☐	0 dm 134 #55
3369		500 111 8	G. COLLINS	KNOX 56	☐	6 1/4	64	25	5'	55	FR	☐	0 dm 1 1/2 sk 1mst 7 1/2 #55-1mst 64
4350		525 111 8	H. KINGSTON	DAVEY & SON 68	☐	6 1/4	153	60	2 1/2'	153	FR	☐	0 sk 4 1mst 153 #140
6537		480 111 9	L. GEORGE	CHALK 73	☐	6 1/4	130	25	6	130	FR	☐	0 dm 1 / sk 6 1mst 129 #125-1mst 130
3370		500 111 10	N. BRAKEN	KNOX 60	☐	6 1/4	52	19	10'	24	FR	☐	0 cl 19 1mst 52 #49
3376		400 111 1	S. NICHOLL	DAVEY 56	☐	6	17	3	1/4	3	FR	☐	0 dm 8 red 1mst 17 #16
4351		420 111 1	G. IRWIN	KNOX 68	☐	6 1/4	30	6	10'	22	FR	☐	0 sk 3 1mst 27 red 1mst 30 #27
4898		420 111 1	N. STEWART	KNOX 69	☐	6 1/8	30	6	10'	14	FR	☐	0 dm 1mst 30 #26
5472		400 111 1	G. TOWNSHANT	DAVEY & SON 71	☐	6 1/4	100	29	5'	98	FR	☐	0 cl 3 1mst 100 #90
6053		420 111 1	P. HANSEN	DAVEY & SON 72	☐	6 1/4	33	15	1 1/2	20	FR	☐	0 sk 7 1mst 33 #30
6997		485 111 1	E. KIRKHAM	DAVEY & SON 75	☐	6	81	27	15'	65	FR	☐	0 dm 4 1mst 81 #36-75



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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm/hr)	Pumping Level (feet)	Quality	Use	Remarks Log etc
3377	PORTLAND TWP	500	2	K. MCKENZIE	DAVY'SON 66	6 1/4	74	40	30'	48	FR	D	0 dm 2 sk 15' 1mst 74 #49 6"
3378		500	4	C. WILSON	MILLER 57	6 1/4	35	10	10'	10	FR	D	0 cl 10 1mst 35" #25
3379		500	4	C. JAY	DAVY'SON 45	6 1/4	103	20	10'	28	SMT	D	0 earth 14 1mst 103 #95
6006		525	4	G. HANNA	DAVY'SON 72	6 1/4	123	49	20'	54	FR	D	0 April 4 1mst sk 20 1mst 123 #119
6007		525	4	W. BARRETT	DAVY'SON 72	6 1/4	122	26	20'	40	FR	D	0 1m 3 1mst 117 55m 122 #36 118
6264		525	4	R. BABCOCK	DAVY'SON 73	6 1/4	119	58	9'	104	FR	S	0 dm 3 1mst 111 red 55m 115 grey 55m 119 #111
7343		500	5	L. HICKS	KNOX 75	6 1/4	34	7	10'	29	FR	D	0 cl 12 1mst 34 #29
3380		550	6	C. PRITCHARD	KNOX 60	6 1/4	130	30	1'	130	FR	D	0 cl 1 1mst 130 #125
3381		520	6	D. WOLSEY	DAVY'SON 50	5 5/8	49	15	13'	20	FR	Gravel	0 earth 4 1mst 48 #40
3382		500	6	G. GARRETT	KNOX 58	6 1/4	64	12	7'	50	FR	D	0 sand 3 1mst 64 #60
3383		475	6	K. SNIDER	ORSEER 58	6	35	15	6'	21	FR	D	0 1mst 35 #18
3384		500	6	E. KNOX	KNOX 66	6 1/4	110	DRY					0 earth 1 sk 1mst 7 1mst 110 —

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm/hr)	Pumping Level (feet)	Quality	Use	Remarks Log etc
3385	PORTLAND TWP	500	S. BABCOCK	KNOX	58	6 1/4	36	6	7	18	FR	D	O cl 8 1mst 36 #34
3386		520	L. QUINN	DAVY'SON	61	6 1/4	50	18	15	20	FR	D	O cl 4 sh 20 1mst 50 #47
3387		500	A. DAVIS	DAVY'SON	53	6 1/4	42	10	7	20	FR	D	O cl 5 1mst 42 #35
3388		500	D. DASLEY	DAVY'SON	54	6 1/4	46	18	10	24	FR	D	O 1m 8 1mst 46 #38
5106		580	M. LAKINS	CAMPBELL	70	5 1/2	150	dry					O sh 15 1mst 150 —
6266		485	D. RITCHIE	DAVY'SON	73	6 1/4	36	10	15	10	FR	D	O 1mst 36 #31
6411		535	N. SNYDER	KNOX	73	6 1/4	80	40	4	76	FR	D	O earth 2 1mst sh 8 1mst 80 #75
3389		500	F. SHANGRAW	KNOX	56	6 1/4	70	24	7	60	FR	D	O earth 2 1mst 70 #53
3390		500	C. SNYDER	DAVY'SON	57	6	78	14	10	32	FR	D	O sand 8 1mst 78 #72
3391		450	H. JACOBSEN	DAVY'SON	65	6 1/4	43	10	40	20	FR	D	O soil 6 1mst 43 #38
3392		450	MEERS LUMBER CO.	GOODBERY	50	6	44	8	7	20	FR	BOILER	O cl 4 sh 1mst 8 1mst 44 #31
3393		450	HARROWSMITH SCHOOL	DAVY'SON	67	6 1/4	66	10	10	30	SAT	SCHOOL	O cl 4 1mst 66 #35

Table Summary of Water Well Records

Date

Prepared by

Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
		can lot											
3394	PORTLAND TWP	IV 7	B. LAMBERT	SIGSWORTH	SS	5 5/8	47 1/2	5	17 1/2	12	FR	D	O c 12 sk 1mst 8 1mst 47 1/2 *20 40
3395		IV 7	J. LAMBERT	SIGSWORTH	SS	5 5/8	46 1/2	11	17 1/2	19	FR	D	O c 13 sk 1mst 16 1mst 46 1/2 *23 38
3396		IV 7	LAMBERT'S GARAGE	SIGSWORTH	SS	6	48	10	1	19	FR	SERVICE STATION	O c 1 1/2 sk 7 1mst 48 *43
3397		IV 7	B. GALBRAITH	DAVY & SON	SS	6 1/4	33	2	10	10	FR	D	O 1m 3 1mst 33 *24
3398		IV 7	L. HUSBAND	DAVY & SON	64	6 1/4	45	6	3	45	FR	D	O sk 16 1mst 45 *34
3399		IV 7	L. HUSBAND	DAVY & SON	64	6 1/4	45	6	10	45	FR	D	O sk 17 1mst 45 *42
3400		IV 7	L. HUSBAND	KNOX	SS	6 1/4	50	8	7	40	FR	D	O ear 45 1mst 50 *45
3401		IV 7	HARROWSMITH SCHOOL	DAVY	SS	6 1/4	55	10	10	30	FR	SHOOL	O c 14 1mst 55 *45
3402		IV 7	L. DOWKER	DAVY & SON	SS	6	45	11	15	21	FR	D	O sdy 1m 14 1mst 45 *40
3403		IV 7	G. HICKS	DAVY & SON	SS	6 1/4	44	11	30	19	FR	D	O 1mst 44 *40
3404		IV 7	H. LAMBERT	DAVY & SON	SS	6 1/4	66	29	15	66	FR	D	O 1m 8 1mst 66 *57 64
3405		IV 7	D. FULLER	DAVY & SON	SS	6	76	18	15	42	FR	D	O c 10 1mst 76 *71



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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
	con	lot											
3406	PORTLAND TWP	535	IV 7	C. WILSON	DAVIS JUN 60	6 1/4	40	15	30'	25	FR	D	0 c 15' / mst 40 *35
3407		500	IV 7	B. CRANSTON	DAVIS SON 60	6 1/4	55	18	20'	35	FR	D	0 sk 10 / mst 55 *40
3408		500	IV 7	B. LAUECK	KNOX 60	6 1/4	95	25	20 per night	95	FR	D	0 earth / mst 95 *45
3409		475	IV 7	I. SNIDER	DAVIS JUN 61	6 1/4	55	29	12'	37	FR	D	0 1 m 13 / mst 55 *51
3410		500	IV 7	B. CRANSTON	KNOX 62	6 1/4	43	25	7'	30	FR	S	0 earth 1 sk / mst 7 / mst 43 *30
3411		500	IV 7	G. BARR	GOODBERRY 64	6 1/4	64	26	2 1/2'	53	FR	D	0 sand 2 / mst 64 *56
3412		500	IV 7	R. FISH	CAMPBELL 66	6 1/4	37	6	1/2'	8	FR	D	0 1 m 5' / mst 37 *29
4504		500	IV 7	J. WALKER	CAMPBELL 68	6 1/4	34	12	6 1/2'	18	FR	D	0 1 m 3' / mst 34 *26
4726		475	IV 7	J. THOMPSON	DAVIS SON 69	6 1/4	65	19	6'	65	FR	D	0 find 12 / mst 65 *62
4729		500	IV 7	F. SHANGRAW	KNOX 69	6 1/4	147	21	1'	147	FR SALT	D	0 soil 1 / mst sk 8 / mst 127 / ss 146 grnt 147 *47 147
5274		475	IV 7	R. LETHMAN	CAMPBELL 70	6 1/4	110	20	5'	90	FR	D	0 1 m 4' / mst 110 *90
5943		485	IV 7	R. OLMSTEAD	KNOX 72	6 1/4	220	50	10'	90	FR	D	0 earth 2 / mst 110 / ss 130 grnt 220 *130

Table Summary of Water Well Records

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Prepared by

Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
6686	PORTLAND Twp.	482	K. PRATT	DAY'SON 74	P	6 1/4	46	10	2'	46	FR	D	OSK 4 /mst 46 #37
6724		465											
6685		482	K. PRATT	DAY'SON 74	P	6 1/4	45	10	5'	45	FR	D	OSK 4 /mst 45 #37
3413		450	K. NORGARD	DAY'SON 65	P	6	145	25	1'	145	FR SALT	D	OSK 60 /mst 145 #140 145
3414		500	K. COLLINS	DAY'SON 55	P	6 1/4	155	30	5'	60	FR	D	OSK 8 /mst 155 #150
3415		450	G. A. SNYDER	DAY'SON 59	P	6 1/4	55	13	15'	55	FR	D	OSK 8 /mst 55 #52
3416		500	HARROW WITH PUBLIC SCHOOL	DAY'SON 60	P	6 1/4	54	20	50	44	FR	SCHOOL	OSK bldr 17 /mst 50 #50 grnt 54
3417		500	HARROW WITH PUBLIC SCHOOL	DAY'SON 60	P	6 1/4	54	20	50	44	FR	SCHOOL	OSK bldr 17 /mst 50 #50 grnt 54
3418		500	E. ARNEY	CAMPBELL 61	P	6 1/4	54	12	5'	35	SU	S	OSK 1 1/2 /mst 54 #42
3419		500	P. FRASER	DAY'SON 61	P	6 1/4	81	8	12'	34	FR	D	OSK 9 /mst 81 #76
3420		500	B. HINCH	DAY'SON 65	P	6 1/4	112	10	1 1/2'	112	FR	D	OSK 4 /mst 112 #65
3421		500	R. M. BARNARD	GOODBERRY 67	P	5 3/4	205	100	1'	204	FR	D	OSK 108 /mst 173 #108 grnt 205

Table Summary of Water Well Records

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm)/(hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
		con lot											
3422	ARTZAND TWP.	14 8	R. M. BARNACKI	GOODBERRY 67		6 1/4	125	DRY					0 to 14 1mst 125
4352		450 8	B. JONES	CAMPBELL 68		6 1/4	42	12	1 1/3	41	FR	D	0 1m 4 1mst 42
5218		500 8	R. MORTIMER	DANESON 70		6 1/4	73	23	6'	74	FR	D	0 2nd 4 1mst 14 19 1mst 78
3423		455 9	W. ABRAMS	KNOX 62		6 1/4	51	12	6'	40	FR	D	0 2nd 3 1/2 1mst 8 1mst 51
7049		515 10	PORTLAND PACKERS LTD.	GOODBERRY 75		6	59	12	5'	54	FR	D	0 2nd 9 1mst 59
7107		500 10	D. GARRISON	DANESON 75		6	53	23	15'	42	FR	D	0 1mst 53
5113		495 1	E. KELLAR	KNOX 70		6 1/4	73	47	10 ²	56	FR	D	0 2nd 6 1mst 48 55th 71 grnt 73
5322		500 1	FR. OHLKE	KNOX 71		6 1/4	54	12	15 ²	38	FR	D	0 2nd 3 1mst 14 18 1mst 50 55th 54
5326		490 1	A. BARCOCK	KNOX 71		6 1/4	65	38	10 ²	53	FR	D	0 2nd 18 1mst 43 55th 65
5915		430 1	F. MORLEY	KNOX 72		6 1/4	66	30	7 ²	60	FR	D	0 2nd 36 55th 58 grnt 66
6594		490 1	P. GREEN	KNOX 74		6 1/4	125	25	5 ²	110	FR	D	0 2nd 36 grnt 55th 102 61K 55th 112 grnt 55th 125
6613		448 1	T. WOODRIDGE	KNOX 74		6 1/4	73	45	10 ²	66	FR	D	0 2nd 12 1mst 73



Table Summary of Water Well Records

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm)/(hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc	
	PORTLAND TWP.	can lot			year									
7064		V 1	B. HUNT	KNOX	75	6 1/4	164	19	4 ²	145	FR	D	0 earh 5 blue lmst 92 Green lmst 103 grnt 164	*39 "10
3429		V 2	F. WILSON	DAVEY	59	5 3/8	80	39	30 ^{1/2}	60	Su	S	0 lmst 80	*58
3430		V 2	F. WILSON	DANVISON	62	5 3/8	179	31	25 ^{1 1/2}	105	FR	S	0 predrilled 80 lmst 111 black grnt 131 grey grnt 179	*170
6849		V 2	D. PIXLEY	DANVISON	74	6 1/4	53	27	10 ["]	53	FR	D	0 lm 2 lmst 53	*34
4524		V 3	R. PIEN	DANVISON	68	6 1/4	172	70	4 [']	172	FR	D	0 cl 3 lmst 120 sth 40 grnt 172	*90 160
7262		V 4	J. PINDUR	KNOX	75	6	94	42	7 ²	87	FR	D	0 earh 2 lmst 86 sth 94	*87
3431		V 5	W. SCALES	CHALK	62	6 1/4	37	5	2 [']	30	FR	D	0 cl 1 lmst 37	*32
3432		V 5	R. CLAYTON	DANVISON	64	6 1/4	38	2	10 [']	5	FR	D	0 cl 6 lmst 38	*30
3433		V 5	M. REIDEN	WALLES	64	6 1/4	31	13	21 [']	15	FR	D S	0 lmst 31	*16
3434		V 5	B. LAMBERT	DANVISON	65	6 1/4	48	10	6 [']	48	FR	D	0 sh 19 lmst 48	*45
3435		V 5	H. KINGSTON	DANVISON	65	8	76	25	7 [']	76	FR	S	0 sh 5 lmst 76	*70
3436		V 5	W. HOWE	DANVISON	67	6 1/4	40	6	3 1/2 [']	40	FR	D	0 cl 2 lmst 40	*35

Table Summary of Water Well Records

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Prepared by

Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc	
3437	PORTLAND TWP	V S	F. PLAYER	DANVISON 67	✓	6 1/4	48	8	25'	30	FR	D	0 sh 20 1mst 43	*46
4957		V S	W. WOLSEY	GOODBERRY 70	✓	6 1/4	32	2	7'	27	FR	D	0 fill 1 1/2 hrs 1 1/2 c 16 1mst 32	*17 27
5302		V S	T.W. JOHNSON	DANVISON 71	✓	6 1/4	150	9	8'	145	FR	D	0 1mst 150	*12 192
5493		V S	B. LAMBERT	DANVISON 71	✓	6 1/4	51	14	8'	51	FR	D	0 c 1 2 1mst 51	*44
7112		V S	BOUCHARD	DANVISON 75	✓		63	4	2	63	SALT	D	0 1m 2 1mst 63	*59
6775		V S	J. McFARLAND	DANVISON 74	✓		81	26	10'	81	FR	D	0 soil 4 1mst 81	*70
3438		V G	A. SMITH	DANVISON 52	✓	6 1/4	68	15	10'	20	FR	D	0 1m 3 1mst 68	*60
3439		V G	K. BAY	SIGSWORTH 53	✓	5 5/8	60	21	6	55	FR	D	0 c 1 2 1mst c 1 15 1mst 60	*35
3440		V G	F. CLARK	KNOX 55	✓	6 1/4	78	12	6'	30	FR	D	0 c 1 4 1mst 78	*70
3441		V G	H. DAY	SIGSWORTH 55	✓	5 5/8	55	10	17 1/2	20	FR	D	0 c 1 5 1mst seems 19 1mst 55	*20 35 45
3442		V G	H.R. GALLAGHER	DANVISON 55	✓	6 1/4	36	12	10'	15	FR	D	0 c 1 10 1mst 36	*30
3443		V G	E. McNAIR	KNOX 55	✓	6 1/4	62	22	5'	62	FR	D	0 c 1 1 1mst 62	*60

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc
3444	PORTLAND TWP.	560	J. WATSON E. WALLACE	GOODBERRY 59	?	6	79	23	5' 1 1/2	69	FR	?	O tpd / ind 2 sh 12 1mst 79 *65-77
3445		500	HARROWSHITH PUBLIC SCHOOL	DAVY & SON 59	?	6 1/4	71	31	20' 3	48	FR	SCHOOL	O cl 8 1mst 71 *68
3446		500	H. KINGSTON	DAVY & SON 59	?	6 1/4	70	32	20' 2	45	FR	CHESE FABORY	O fill 9 1mst 70 *66
3447		500	D. RITCHIE	GOODBERRY 60	?	6 1/4	64	10	30' 2	10	FR	?	O cl 1stns 3 1mst 64 *55-60
3448		500	R. BAUDER	CAMPBELL 61	?	6 1/4	34	19	6' 1	27	FR	?	O 1m 15 ind 26 1mst 34 *27
3449		500	H. KINGSTON	CAMPBELL 61	?	6 1/2	26	6	3 1/2	23	FR	?	O 1m 3 shdy 1mst 10 1mst 26 *12
3450		500	BELL TELEPHONE	KNOX 61	?	6 1/4	67	12	5' 1	45	FR	BELL BUDG.	O cl 4 sh 1mst 10 1mst 60 *47
3451		500	J.G. CAMPSALL	DAVY & SON 62	?	6 1/4	79	4	8' 1	79	FR	?	O shdy cl 12 sh 20 1mst 79 *74
3452		500	S. BOTTING	DAVY & SON 63	?	6 1/4	79	24	15' 1	31	FR	?	O sh 17 1mst 79 *73
3453		500	D. WOLSEY	KNOX 63	?	6 1/4	35	8	5' 1	33	FR	?	O cl 3 1mst 35 *29
3454		500	G.E. CLARK	GOODBERRY 64	?	5 5/8	80	15	7' 1	67	FR	?	O predrilled 60 1mst 80 *77
3455		500	S. BARBOCK	DAVY & SON 65	?	6 1/4	78	41	15' 1	64	FR	?	O shellrk 13 1mst 73 *72

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3456	PORTLAND TWP	500	T. RAYCRAFT	DAVISON 65	☐	6 1/4	104	40	3'	104	FR	D	0 cl 1m 3 1mst 104
3457		500	H. CLOSS	GOODBERRY 61	☐	6 1/4	127	31	1 1/2'	120	FR	D	0 2nd 15' 1mst 127
3458		500	J. HARPELL	GOODBERRY 60	☐	6 1/2	106	20	3'	100	FR	D	0 2nd: 1st 7' 1mst 91 grnt 106
3459		500	K. COLLINS	KNOX 56	☐	6 1/4	92	40	7'	70	FR	D	0 2nd 1 1mst 92
3460		500	C. LLOYD	DAVISON 66	☐	6 1/4	76	29	20'	56	FR	D	0 shale 19 1mst 76
3461		500	W. JACKSON	DAVISON 66	☐	6 1/4	30	11	10'	13	FR	D	0 sh 16 1mst 30
3462		500	H. KINGSTON	DAVISON 67	☐	6 1/4	46	3	30'	31	FR	CHECK FACT.	0 cl 3 1mst 46
3463		525	T. RAYCROFT	CAMPBELL 67	☐	6 1/4	25	8	16 1/2'	14	FR	D	0 1m 3 1mst 25
3464		500	D. BAKER	DAVISON 67	☐	6 1/4	77	30	5'	77	FR	D	0 cl 3 1mst 77
4507		525	M. LAKINS	CAMPBELL 68	☐	6	60	10	1 1/3'	59	FR	GARAGE	0 1m 4 1mst 60
4506		500	J. MILLIGAN	GOODBERRY 68	☐	6 1/4	37	15	2'	34	FR	D	0 tpsi 1 cl 3 1mst 37
5177		510	T. RAYCROFT	CAMPBELL 69	☐	6 1/4	40	10	3 1/2'	37	FR	D	0 1m 3 1mst 40



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Well No	Location and Elevation		can lat	Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc
4728	PORTLAND TWP	555	V 6	W. MILLER	DAVISON 69	?	6 1/4	145	21	2'	145	FR	D	0 sh 20 1mst 114 gmt 145 *128
4948		500	V 6	POST OFFICE	CHALK 70	?	6 1/4	70	15	5'	60	FR	ABUC	0 pit 4 1mst 56 gmt 70 *65
5492		510	V 6	N. DELINE	DAVISON 71	?	6 1/4	67	26	15'	53	FR	D	0 cl sh 14 1mst 67 *42 64
5796		500	V 6	D. PATTERSON	DAVISON 72	?	6 1/4	82	30	5'	80	FR	D	0 1mst 82 *78
5952		495	V 6	H. KINGSTON	GOODBERRY 72	?	6 1/2	28	12	12'	50	SOME Su	D	0 tpil 25 1mst 28 *15
5949		480	V 6	HARROWSMITH CHEESE FACTORY	GOODBERRY 72	?	6 1/4	44	1 1/2	20'	24	FR	CHEESE FACT.	0 cl 3 sh 5 1/2 1mst 44 *42
6101		500	V 6	A. HOWIE	GOODBERRY 72	?	6 1/4	33	13	20'	13	FR	D	0 tpil 1 1m 4 and 20 1mst 33 *29
6229		535	V 6	T. RAYCROFT	GOODBERRY 73	?		175	DRY				AB	0 cl 2 1mst 175 —
6230		535	V 6	T. RAYCROFT	GOODBERRY 73	?		105	DRY				AB	0 cl 2 1mst 105 —
6233		535	V 6	T. RAYCROFT	GOODBERRY 73	?	6 1/4	94	15	3'	86	FR	D	0 cl 2 1mst 94 *37 91
6262		510	V 6	D. HOLE	DAVISON 73	?	6 1/4	65	28	6'	65	FR	D	0 and sh 4 1mst 65 *38 60
6312		500	V 6	HARROWSMITH CHEESE FACTORY	GOODBERRY 73	?	6 1/4	54	17	13'	20	FR	CHEESE FACT.	0 predrilled 29 1mst 54 *53

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc
6446	PORTLAND TWP.	500	E. SILVER	KNOX	73	6 1/4	34	14	15 ²	29	FR	D	0 earth 2 1mst 34 *29
6768		560	D.J. HUFFMAN	GOODBERRY	74	6	43	19	20 ¹	25	FR	D	0 top 1 1mst 28 1mst 43 *40
6839		545	A. SPROULE	CAMPBELL	74	6	30	10	3 ^{1/2}	27	FR	D	0 1m 4 1mst 30 *12
6841		545	A. SPROULE	CAMPBELL	74	6	70	12	4 ^{1/2}	69	Su	D	0 predrilled 50 1mst 70 *50
6984		495	R. WAGER	GOODBERRY	74	6	86	29	10 ¹	66	FR	D	0 top 1 cl bldr 6 1mst 86 *60 85
7298		495	P. ROBINSON	DANVISON	75	6	92	35	4 ¹	92	FR	D	0 1mst 92 *90
7319		495	D. PETERKIN	DANVISON	75	6	66	7	30 ¹	15	FR	D	0 cl 3 1mst 49 5th 66 *98 63
7321		570	M. CHUMLEY S. FREEMAN	DANVISON	75	6	112	62	2 ¹	112	FR	D	0 cl 2 1mst 93 5th 112 *93
3465		500	J. HAMILTON	DANVISON	50	5 5/8	38	12	20 ⁴	20	FR	D	0 cl 5 1mst 38 *33
3466		500	R. SIMMONS	SIGSWORTH	53	5 5/8	70	15	4	65	FR	D	0 cl 4 5th 6 1mst 70 *23
3467		475	H. LAMBERT	DAVEY	54	5 5/8	45	20	30 ^{1/4}	35	FR	D	0 5nd 4 1mst 45 *30
3468		500	M. LAKINS	DAVEY	54	5 5/8	50	30	30 ^{1/4}	40	Su	D	0 cl 2 1mst 50 *40

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm)/(hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
	PORTLAND TWP	con lot											
3469	475	V 7	J. DELINE	SIGSWORTH 55	9	5 5/8	55	15	4 1/2	50	FR	D	Only 1m 4 1mst 35 55th 55 *25 35
3470	475	V 7	L. SHILLINGTON	SIGSWORTH 55	9	5 5/8	51 1/2	16 1/2	17 1/2	23	FR	D	0 cl 2 1mst seams 20 1mst 51 1/2 *30 43
3471	475	V 7	B. LAMBERT	SIGSWORTH 56	9	5 5/8	49	11	25 1/2	11	FR	D	0 cl 3 1mst 49 *41
3472	475	V 7	D. CLARKE	DANVISON 56	9	6 1/4	51	12	5	41	FR	D	0 cl 13 1mst 51 *51
3473	475	V 7	C. ELLERBECK	KNOX 57	9	6 1/4	82	30	7 1/2	60	FR	D	0 sand 6 1mst 82 *75
3474	525	V 7	I. HAWLEY	ORSER 58	9	6 1/4	45	6	7 2	6	FR	D	0 soil 3 1mst 45 *36
3475	500	V 7	B. LAMBERT	DANVISON 59	9	6 1/4	55	11	40	11	FR	com.	0 predilled 49 1mst 55 *52
3476	500	V 7	M. BLAIR	DANVISON 59	9	6 1/4	46	10	10	15	FR	D	0 cl 7 1mst 46 *35
3477	525	V 7	E. LLOYD	KNOX 59	9	6 1/4	50	14	2	50	FR	D	0 cl 4 1mst 50 *34
3478	525	V 7	A. BABCOCK	KNOX 59	9	6 1/4	51	14	2	47	FR	D	0 cl 1 1mst 51 *45
3479	525	V 7	T. J. TARDIFF	KNOX 60	9	6 1/4	63	14	3	60	FR	D	0 cl 4 1mst 63 *45
3480	525	V 7	A. HANNA	KNOX 60	9	6 1/4	53	12	3	42	FR	D	0 cl 4 1mst 53 *42

Table Summary of Water Well Records

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Prepared by

Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc
	con	lot			year								
3481	PORTLAND TWP	V 7	A. BABCOCK	KNOX	60	6 1/4	51	15	3'	40	FR	D	Oct 3 1mst 51 #40
3482	500	V 7	B. LAMBERT	CAMPBELL	61	6 1/4	26	6	6'	12	FR	D com	Oct 4 1mst 26 #16
3483	500	V 7	G. SIMMONS	DAVY & SON	61	6 1/4	32	19	20'	30	FR	D	Oct 12 1mst 32 #25
3484	500	V 7	UNITED CHURCH	DAVY & SON	61	6 1/4	84	85	7'	84	FR	D	Oct 15 1mst 84 #80
3485	500	V 7	J. J. TAYLOR	DAVY & SON	62	6 1/4	78	17	7'	73	FR	D	Oct 21 1mst 78 #25
3486	500	V 7	C. REDMOND	DAVY & SON	62	6 1/4	45	14	15'	17	FR	D	Oct 24 1mst 45 #41
3487	500	V 7	W. BRUCE	GOODBERRY	62	6 1/4	74	DRY				AB	Oct 2 1mst 74 —
3488	500	V 7	W. BRUCE	GOODBERRY	62	6 1/4	66	DRY				AB	Oct 2 1mst 66 —
3489	500	V 7	W. BRUCE	GOODBERRY	62	6 1/4	66	DRY				AB	Oct 2 1mst 66 —
3490	500	V 7	C. CHAPMAN	KNOX	62	6 1/4	67	8	5'	60	FR	D	Oct 3 1mst 67 #60
3491	500	V 7	H. JACOBSON	DAVY & SON	63	6 1/4	57	8	20'	45	FR	D	Oct 15 1mst 57 #35 52
3492	500	V 7	E. N. CHARLTON	DAVY & SON	63	6 1/4	40	17	10'	40	FR	D	Oct 13 1mst 40 #37

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm)(hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc
	PORTLAND TWP	con lot											
3493	525	V 7	J. LLOYD	KNOX	64	6 1/4	400	DRY				AS	0 earth 5 blue inst 140 red inst 275 grey inst 400
3494	525	V 7	J. LLOYD	KNOX	64	6 1/4	46	11	10	35	FR	D	0 earth 5 inst 46
3495	525	V 7	B. BRUCE	DAVEY & SON	64	6 1/4	80	35	7	80	FR	D	0 inst 80
3496	500	V 7	H. CRAWFORD	DAVEY & SON	64	6 1/4	48	12	50	21	FR	D	0 inst 3 inst 98
3497	500	V 7	G. SIMMONS	DAVEY & SON	64	6 1/4	55	16	8	45	FR	D	0 inst 7 inst 55
3498	525	V 7	V. YOUNG	SIGSWORTH	55	5 5/8	73 2/3	24	5 1/2	65	FR SALT	D	0 cl 2 inst 19 inst 73 2/3 hole sealed with concrete to 57'
3499	500	V 7	G. MILLER	SIGSWORTH	55	5 5/8	94	54	3	84	FR	D	0 cl 2 sh 4 inst 90 grnt 94
3500	525	V 7	H. JACOBSON	DAVEY & SON	64	6 1/4	59	4	30	41	FR	D	0 inst 8 inst 59
3501	500	V 7	H. JACOBSEN	DAVEY & SON	64	6 1/4	83	44	12	75	FR	D	0 inst 2 inst 83
3502	525	V 7	H. JACOBSEN	DAVEY & SON	62	6 1/4	140	40	3	140	FR SLIGHT GAS	D	0 sh 4 inst 140
3503	530	V 7	H. JACOBSEN	DAVEY & SON	62	6 1/4	104	40	5	104	FR SLIGHT SU	D	0 sh 4 inst 104
3504	500	V 7	W. BRUCE	GOODBERRY	62	6 1/4	155	43 1/2	1 1/2	150	FR	D	0 cl 1 inst 155



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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm)(hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
3505	PORTLAND TWP	V 7 500	G. KIRK	RICHMOND 65	9	6 1/4	84	41	7'	68	FR	D	0 1m 2 br. 1mst 6 1mst 70 *66 green 1mst 82 blk grnt 84 *82
3506		V 7 500	R. MANSON	KNOX 65	9	6 1/4	76	38	15'	66	FR	D	0 earl 2 sl 1mst 10 *67 1mst 76
3507		V 7 500	J. HAMILTON	DANVISON 65	9	6 1/4	44	12	6'	39	FR	D	0 cl 8 1mst 44 *27 40
3508		V 7 500	H. JACOBSEN	DANVISON 65	9	6 1/4	85	46	5'	85	FR	D	0 cl 3 sl 13 1mst 85 *81
3509		V 7 500	A. BASCOCK	KNOX 60	9	6 1/4	147	70	4'	147	FR	D	0 cl 6 blue 1mst 120 *142 green 1mst 138 red grnt 142 blue 1mst 147
3510		V 7 500	R. MARTIN	KNOX 66	9	6 1/4	89	44	3'	85	FR	D	0 sd soil 4 1mst 89 *85
3511		V 7 525	I. FERRIER	DANVISON 66	9	6 1/4	74	19	3'	74	FR	D	0 sl 13 1mst 74 *71
3512		V 7 525	K. PERRY	DANVISON 66	9	6	65	42	15'	65	FR	D	0 predrilled 53 1mst 65 *60
3513		V 7 525	B. S. N. DIER	CAMPBELL 66	9	6 1/4	40	20	1 1/6	38	FR	D	0 1m 16 1mst 40 *34
3514		V 7 500	H. JACOBSEN	DANVISON 66	9	6 1/4	129	12	3'	129	FR	D	0 1mst 55 red grnt 70 *100 white grnt 129
3515		V 7 525	R. SULLIVAN	DANVISON 66	9	6 1/4	84	12	1'	84	FR	D	0 sl 8 1mst 84 *35
3516		V 7 525	PORTLAND TWP. PARK	DANVISON 67	9	6 1/4	100	40	1/4'	100	FR	PARK	0 sl 10 1mst 100 *80



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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc	
	PORTLAND TWP	con lot												
3517	500	V 7	D. RUTMAN	DAVEY'SON 67	P	6 1/4	45	5	10	35	FR	D	Oct 4 1mst 95	*28 43
3518	500	V 7	V. YOUNG	DAVEY'SON 67	P	6 1/4	48	14	10	38	FR	D	Oct 15 10 1mst 98	*40
3519	500	V 7	G. HUFFMAN	DAVEY'SON 67	P	6 1/4	54	8	10	36	FR	D	Oct 4 1mst 54	*98
3520	520	V 7	J. JACOBSEN	DAVEY'SON 67	P	6 1/4	76	18	10	76	FR	D	Oct 11 1mst 76	*70
3521	500	V 7	W. BRUCE	DAVEY'SON 67	P	6 1/4	65	15	3	65	FR	D	Oct 5 1mst 65	*20 35
3522	500	V 7	L. OSBORNE	GOODBERRY 67	P	6 1/4	40	4	8	24	FR	D	Oct 1 1 10 6 1mst 40	*35
3523	515	V 7	N. CURTIS	CAMPBELL 67	P	6 1/4	28	12	8	18	FR	D	Oct 6 1mst 28	*17
4644	570	V 7	F. WILSON	CAMPBELL 68	P	6 1/4	40	10	15	20	FR	D	Oct 10 6 1mst 40	*10
4643	570	V 7	W. BRUCE	CAMPBELL 69	P	6 1/4	50	12	15	49	FR	D	Oct 10 1m 5 1mst 50	*15
5786	500	V 7	ODD FELLOWS	DAVEY'SON 72	P	6 1/4	56	21	20	24	FR	D	Oct 20 1mst 56	*53
5680	510	V 7	H. SNYDER	DAVEY'SON 72	P	6 1/4	69	12	10	55	FR	D	Oct 2 1mst 69	*66
5833	532	V 7	W. KINGSBURY	DAVEY'SON 71	P	6 1/4	84	0	20	60	FR	D	Oct 65 gmt 84	*81

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc			
														can	lat	year
5422	PORTLAND TWP	535	✓	7	C. P. LEVEQUE	CAMPBELL	71	✓	12	7	1/2	70	FR	✓	01m8 /mst 80	*77
5421		540	✓	7	W. BRUCE	CAMPBELL	71	✓						AB	01m3 /mst 40	—
5444		530	✓	7	W. L. COUGLAN	DAY'SON	71	✓	51	10	1	77	FR	✓	01mst sl 17 /mst 94	*91
5376		510	✓	7	F. CLOSS	GOODBERRY	71	✓	24	20	1	30	FR	✓	0 4x1 / cl 2 /mst 50	*45
5497		530	✓	7	W. KINGSBURY	DAY'SON	71	✓	54	4	1	103	FR	✓	01m 2 /mst 103	*63 58
4503		500	✓	7	C. P. LEVEQUE	KNOX	68	✓	11	20	2	30	FR	✓	0 study grul 13 /mst 40	*36
4505		500	✓	7	H. DAY	CAMPBELL	68	✓	10	20	1/2	14	FR	GARAGE	01m 3 /mst 27	*17
4525		515	✓	7	D. G. ROTHWELL	DAY'SON	68	✓	35	10	1	65	FR	✓	0 cl 1 /mst 83 grnt 86	*74 83
4724		505	✓	7	G. COLLINS	DAY'SON	69	✓	44	6	1	84	FR	✓	0 cl 2 /mst 84	*76
4847		505	✓	7	K. PIERCE	DAY'SON	69	✓	43	5	1	81	FR	✓	0 /mst sl 19 /mst 92	*89
4870		510	✓	7	W. VANKOUGHNETT	DAY'SON	69	✓	9	1	1	120	FR	✓	0 /mst sl 20 /mst 93 grnt 122	*93
5044		540	✓	7	H. JACOBSEN	DAY'SON	70	✓	21	3	1	65	FR	✓	0 and 3 /mst 65	*40

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
	Portland Twp	con lot											
5110	510	V 7	M. LAKINS	CAMPBELL 70	Q	5	84	13	1 1/2	80		1)	0 predrilled 50/mst 84
5026	505	V 7	G. BARTRAW	DANVISON 70	Q	6 1/4	115	41	5	112	FR	1)	0/mst 90 grnt 115
5078	510	V 7	H. KINGSBURY	DANVISON 70	Q	6 1/4	94	34	12	80	FR	1)	0 c1 1/mst 94
6156	535	V 7	J. H. MASON	DANVISON 73	Q	6 1/4	83	12	4	83	FR	1)	0 sud 8/m 11/mst 83
6267	535	V 7	J. FOSTER	DANVISON 73	Q	6 1/4	95	8	1 1/2	95	FR	1)	0 sl 4/mst 95
6514	530	V 7	R. OLMSTEAD	KNOX 73	Q	6 1/4	108	15	5	101	FR	1)	0 earh 2/mst 101 stn 108
6249	530	V 7	G. CAMPBELL	DANVISON 73	Q	6 1/4	106	50	4	106	FR	1)	0 c1 3/mst 98 stn 106
6387	515	V 7	R. SEDORE	GOODBERRY 73	Q	6 1/4	84	26	1 1/2	80	FR	1)	0 c1 4/mst 84
6644	505	V 7	W. BARRETT	DANVISON 74	Q	6 1/4	136	70	1	136	FR	AB	0 c1 3/mst 115 stn 136
6645	505	V 7	W. BARRETT	DANVISON 74	Q	6 1/4	126	70	3/4	126	FR	AB	0 c1 2/mst 116 stn 126
6646	505	V 7	W. BARRETT	DANVISON 74	Q	6 1/4	125	70	3/4	125	FR	AB	0 c1 3/mst 115 stn 125
6759	535	V 7	H. M. REVELL LEASING	GOODBERRY 74	Q	6 1/4	103	53	3	98	FR	COM	0 fill 1 c1 2/mst 103

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Well No	Location and Elevation		con	lat	Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc
7113	PORTLAND TWP	570	V	7	H. JACOBSON	DAVY'SON 75	☐	6	135	50	4'	135	FR	D	O/m 3 /mst 94 ssta 108 white ssta 135
7244		520	V	7	I. FERRIER	KNOX 75	☐	6 1/4	120	53	2'	118	FR	D	Oearth 2 black/mst 85 green /mst 97 ssta 120
3524		450	V	8	A. CORNWALL	GOODBERRY 58	☐	6	108 1/2	23 1/2	6 1/2'	86 1/2	slight Su	D S	O bkt 5 1/2 /mst 95 blk rk 55 /mst 100 ssta 108 1/2 100
3525		450	V	8	R. RICHARDSON	GOODBERRY 64	☐	6 1/4	55	15	15'	40	slight Su	D	O sand 3 /mst 55
3526		475	V	8	K. BAKER	DAVY'SON 66	☐	6 1/4	108	33	5'	108	FR	D	O sk 19 /mst 108
3527		500	V	8	K. PETRASH	DAVY'SON 67	☐	6 1/4	59	16	7'	59	FR	D	O sand 10 /mst 59
3528		450	V	8	L. KERR	DAVY'SON 67	☐	6 1/4	59	23	10'	30	FR	D	O sand 33 /mst 59
6785		475	V	8	BAKER	DAVY'SON 74	☐	6 1/4	42	11	7'	42	FR	D	O sand 7 /mst 42
6512		530	VI	1	G. SCHAUF	KNOX 73	☐	6 1/4	176	43	4'	170	FR	D	Oearth 2 /mst 95 ssta 167 grnt 176
3533		570	VI	2	A. ALTAN	GOODBERRY 49	☐	6 1/4	52	2	5 1/2'		FR	S	O /m 2 /mst 52
3534		600	VI	2	P. WISTARD	KNOX 57	☐	6 1/4	50	6	2'	50	FR	D	Oearth 1 ssta /mst 6 /mst 50
3535		600	VI	2	P. WISTARD	KNOX 57	☐	6 1/4	138	6	4'	138	FR	D	O predrilled 50 /mst 138

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc
	PORTLAND TWP	con lot		year									
3536	600	V1 2	D. JAMIESON	CAMPBELL 61	☐	6 1/4	14	3	2 1/2	3 1/2	FR	D	0 1m 2 stelly 1mst 3 1mst 19 *12
3537	600	V1 2	D. H. JAMIESON	GOODBERRY 65	☐	6 1/4	243	DRY				AB	0 1mst 160 scapstn 243 —
3538	600	V1 2	D. H. JAMIESON	GOODBERRY 65	☐	6 1/4	153	22	2	130	FR	D	0 c1 3 1mst 153 *130-152
7196	640	V1 3	R. LEEMAN	CAMPBELL 75	☐	6	45	8	1	43	FR Su	D	0 sk 8 1mst 45 *14 32
7283	640	V1 3	R. LEEMAN	CAMPBELL 75	☐		68				SALT	AB	0 predrilled 45 1mst 68 *68
7385	640	V1 3	C. J. ROGERS	SEAFIELD 75	☐	6	35	6	3	10	FR	D	0 1mst 35 *32
3539	600	V1 4	V. ALTON	CAMPBELL 67	☐	6 1/4	75	DRY				AB	0 1m 8 1mst 75 —
5671	600	V1 4	V. ALTON	CAMPBELL 71	☐	6 1/4	34	4	4	23	FR	D	0 1m 4 1mst 34 *30
6124	585	V1 4	E. ALTON	CAMPBELL 72	☐	6 1/4	60	10	4 1/2	56	FR	D	0 predrilled 40 sdark 60
3540	565	V1 5	P. HANSEN	CAMPBELL 61	☐	6 1/4	52	20	5 1/2	30	FR	D S	0 1m 2 1mst 52 *50
3541	550	V1 5	R. BAUDER	CAMPBELL 62	☐	6 1/4	56	20	7	20	FR	D	0 predrilled 34 1mst 40 *34 stn 45 gwl 47 1mst 56
3542	450	V1 6	C. LEE	GOODBERRY 52	☐	6	50	10	1	48	FR	D	0 1m 15 1mst 50 *48

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	PORTLAND TWP	con lot											
3543	475	V1 6	H. THURSTON	DANV & SON 59	☐	6 1/4	84	5	5	84	FR	D	O c 1 2 1mst 89 *75
3544	500	V1 6	B. HAMILTON	KNOX 58	☐	6 1/4	47	9	6	47	FR	D	O earl 9 1mst 47 *40
3545	500	V1 6	H. RULE	KNOX 58	☐	6 1/4	90	40	5	75	FR	D	O earl 6 1mst 90 *80
3546	550	V1 6	K. DARTT	MILLER 59	☐	5 5/8	49	15	20	49	FR	D	O 1mst 54 11 1mst 49 *30
3547	550	V1 6	P. HANSEN	DANV & SON 59	☐	6 1/4	237	DRY				178	O 1m 4 1mst 188 grnt 237 -
3548	550	V1 6	E.R. MITCHELL	MILLER 59	☐	5 5/8	44	0	45	20	FR	VEN HOUSE	O 1mst 54 9 1mst 44 *20
3549	500	V1 6	C. LEE	GOODBERRY 61	☐	6 1/4	166	40	2	90	FR	D	O tail c 13 1mst 196 hand sk 166 *80 150
3550	550	V1 6	E.R. MITCHELL	CAMPBELL 62	☐	6 1/4	16	6	5 1/2	11	FR	S	O 1m 3 1mst 16 *12
3551	500	V1 6	K. DARTT	WALSH 62	☐	6 1/4	105	55	1	105	FR	D	O predilled 93 1/2 1mst 100 5th 105 *100
3552	475	V1 6	R. MITCHELL	DANV & SON 63	☐	6 1/4	200	31	3	200	FR	S	O sk 9 blue 1mst 101 w. 1mst 200 198 *46 50 198
3553	500	V1 6	H. RULE	CAMPBELL 64	☐	6 1/4	112	20	1 1/2	111	FR	D	O 1m 6 1mst 110 5th 112 *110
3554	500	V1 6	J. DAVISON	DANV & SON 67	☐	6 1/4	69	8	5	69	FR	D	O c 1 3 1mst 69 *66

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm)/(hrs)	Pumping Level (feet)	Quality	Use	Remarks, Log etc
		con lot		year									
4846	PORTLAND TWP	V1 6	J. ZERBECK	DANVISON 69	9	6 1/4	51	12	4 1/2	47	FR	D	0 c1 3 /mst 51 #32 48
5280		V1 6	E. ALTON	CAMPBELL 70	9	6 1/4	40	10	4	35	FR	D	0 /m 6 /mst 40 #30
6009		V1 6	R. MITCHELL	DANVISON 72	9	6 1/4	125	30	1	125	FR	D	0 sk 8 blue hnt 115 w. hnt 125 #70 110
6596		V1 6	G. THOMSON	KNOX 74	9	6 1/4	103	18	5	99	FR	D	0 earth 1 brown /mst 7 blue /mst 96 green /mst 103 #91 99
6691		V1 6	R. MITCHELL	DANVISON 74	9	6 1/4	81	12	5	81	FR	D	0 sk 8 /mst 81 #40 75
7003		V1 6	R. MITCHELL	DANVISON 75	9	6	225	72	3	225	SA	D	0 /m 3 /mst 150 /mst 15th 225 #220
7068		V1 6	H. YOUNG	KNOX 75	9	6 1/4	74	9	5	68	FR	D	0 /m 4 and 14 and gravel 17 /mst 68 sstn 74 #40 69
7243		V1 6	S. SUNDSEN	KNOX 75	9	6 1/4	120	45	5	116	FR	D	0 earth 2 /mst 118 sstn 120 #116
3555		V1 7	K. MANSON	DANVISON 54	9	6 1/4	99	50	20	50	FR	D	0 /mst 99 #95
3556		V1 7	W. WALLACE	DANVISON 57	9	6	100	35	20	49	FR	D	0 only 1m 5 /mst 100 #95
3557		V1 7	HARTINGTON SCHOOL	DANVISON 58	9	6 1/4	135	18	20	49	FR	School	0 sk 20 /mst 120 grt 135 #135
3558		V1 7	J. ERLERBECK	KNOX 58	9	6 1/4	48	10	6	18	FR	D	0 earth 14 /mst 48 #40

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Well No	Location and Elevation		Owner	Driller	Well Type	Well Diameter (inches)	Depth (feet)	Static Level (feet)	Pumping Test (gpm) (hrs)	Pumping Level (feet)	Quality	Use	Remarks Log etc
	lot	con											
3559	PORTLAND TWP	VI 7	L. MOORE	KNOX 53	9	6 1/4	54	12	7	13	FR	POOL	0 earl 8 /inst 54 \$40
3560	500	VI 7	J. ZILBERBECK	KNOX 61	9	6 1/4	44	16	6	36	FR	D	0 cl 3 /inst 49 \$38
3561	525	VI 7	R. GOSLIN	DANY'SON 62	9	6 1/4	49	21	4	49	RIGHT Su	D	0 /inst 49 \$35
3562	500	VI 7	R. MORGAN	KNOX 66	9	6 1/4	145	38	1	140	FR	D	0 earl 5 /inst 145 \$129
3563	500	VI 7	M. ROSEN	DANY'SON 66	9	6 1/4	71	12	2 1/2	71	FR	D	0 /inst 71 \$35 65
4508	495	VI 7	C. ASH	DANY'SON 69	9	6 1/4	65	8	6	60	FR	D	0 /m 3 /inst 65 \$25 60
4844	500	VI 7	S. BRAWLEY	DANY'SON 69	9	6 1/4	126	17	1 1/2	126	FR	D	0 cl 4 /inst 100 with 110 grnt 126 \$55 115
4723	500	VI 7	J. CLAIR	DANY'SON 69	9	6 1/4	100	20	20	60	FR	D	0 cl 1 /inst 100 \$98
4595	520	VI 8	C. LEONARD	GOODBERRY 68	9	6 1/4	41	18	25	25	FR	D S	0 cl 3 /inst 41 \$23
7108	540	VI 9	B. WARTMAN	DANY'SON 75	9	6	79	29	12	70	FR	D	0 cl 2 /inst 79 \$75
3564	500	VI 10	G. EDMONDS	DANY'SON 62	9	6 1/4	147	25	5	147	FR	D S	0 sl 8 /inst 147 \$125
3565	500	VI 10	O. KENDRICK	DANY'SON 63	9	6 1/4	79	33	20	37	FR	D S	0 sl 10 /inst 78 \$74

Table 2 Summary of Water Analyses

Prepared by

Source and Number	Location	Date Sampled	pH	Colour Hazen Units	Turbidity Farnham Units	Specific Conductance micmhos at 25°C	Total Dissolved Solids (ppm)	Total Hardness as CaCO ₃ (ppm)	Alkalinity as CaCO ₃ (ppm)	Chemical Constituents in parts per million (ppm)								Total Nitrogen			Total Carbon		
										Chloride C ⁻	Sulphate SO ₄	Iron Fe	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Free Ammonia	Total Kjeldahl	Nitrite	Nitrate	Total	Total Organic	Total Inorganic
Harrowsmith Public School 3416, 3417	Harrowsmith	July 24/77	7.5	<5	.23	665	415	320	261	42	38	0.05	91	22	20	2.1	<.1	.1	<.01	2.4	69	2	67
Harrowsmith East Public School 3401	"	"	7.2	<5	.30	1040	1110	48	376	349	80	0.05	14	3	420	2.4	<.1	.3	<.01	<.1	108	11	97
Thompson Well	"	"	7.1	70	5.8	2180	1600	716	442	438	87	1.6	204	50	205	7.7	.1	.8	<.01	<.1	130	12	118
Peterkin Well 7319	"	"	7.9	<5	.43	755	460	127	254	40	106	0.05	34	10	125	4.2	.3	.4	<.01	<.1	64	1	63
Hanna Well 6006	"	"	7.7	<6	.50	555	306	234	247	27	34	<.005	62	19	32	3.6	<.1	.1	<.01	.4	65	4	61
Pratt Well 6685	"	"	7.3	20	.37	775	546	429	349	38	42	0.10	115	34	12	1.1	<.1	.4	<.01	3.7	96	6	90
Snyder Well 6411	"	"	7.5	<5	.25	880	600	352	257	111	70	0.10	88	32	56	6.1	<.1	.1	<.01	2	70	6	64
Manions Well 3506	"	"	7.5	<5	.75	565	350	258	269	14	34	0.15	65	23	27	5.6	<.1	.5	<.01	<.1	70	1	69
Smith Well	"	"	8.0	<5	.55	3170	2060	1054	216	980	30	0.10	270	123	255	19	.4	.8	<.01	<.1	54	3	51
Jacobson Well 3503	"	"	7.4	<5	.51	825	525	382	308	64	37	<.005	108	27	28	2.4	.2	.7	<.01	<.1	85	14	71
Dart Well 3546	"	"	7.5	15	3.8	670	410	320	281	35	50	0.55	90	23	23	2.9	<.1	<.1	<.01	2	70	13	57
Closs Well	"	"	7.3	40	8.7	2470	1745	691	304	508	320	1.2	196	49	285	9.6	.3	.3	<.01	<.1	75	3	72

VILLAGE OF
HARROWSMITH
GROUND WATER
SURVEY

SCALE
1 inch = 500 feet

LEGEND

- 3046 Well number
 9 Drilled well in bedrock
 8 Drilled well in overburden
 7 Drilled well in bedrock, abandoned, dry now!
 3046 Sampled well
 Possible bedrock channel location

FIGURE NO. 1 OCTOBER 1977 J.K.Y.

